4. CLOSURE OF UNDERGROUND TANKS.

The Union Switch & Signal Division of American Standard removed thirty five (35) tanks at it's Swissvale Property. The Project was conducted in two (2) phases.

The first phase was the removal,cleaning, and disposal of (19) Steel Storage Tanks. This work was further broken down into three areas.

1. Five (5) 20,000 gallon #2 Fuel Oil Tanks
2. Two (2) Gasoline tanks; 10,000 and 1,000 gallons
3. Twelve (12) Process Oil Tanks

Work began on the five (5) 20,000 Gallon #2 Fuel Oil Tanks on December 9, 1985. New England Pollution Control Co.,Inc. (NEPCCO) performed the excavation work.

The soil overlying the tanks was first excavated and stockpiled on plastic. NEPCCO personnel then entered the tanks to remove any residual product and to pressure wash them. The tanks were exhumed and placed on plastic where a hole was burned in each to certify that they had been cleaned. They were then cut up and disposed of offsite as scrap. Similar procedures were used with respect to all (19) tanks.

After exhumation, composite samples were taken from the excavation. These samples were sent to the International Technologies Labs in Export, Pennsylvania for Total Petroleum Hydrocarbon (TPH) Analysis.

There were four composite samples taken around the excavation. They were labeled P-1 Southwest Corner, P-2 Northwest Corner, P-3 Southeast Corner, and P-4 Northeast Corner. The results were as follows:

P-1	340 ppm	TPH
P-2	140 ppm	TPH
P-3	260 ppm	TPH
P-4	53/41 ppm	TPH

The excavated soil was placed back in the excavation along with the overlying soil. The reintroduced soil was permitted to settle and then was rolled and the site was closed on December 12, 1985.

Two gasoline tanks, one 10,000 gallons and the second 1,000 gallons were removed from area two on December 12, 1985.

Composite samples were taken from the North, South, East, and West sides, of the excavation. These samples were labeled P-5, P-6, P-7, and P-8. The results are as follows:

P-5	62	ppm	TPH
P-6	82	ppm	TPH
P-7	110	ppm	TPH
P-8	84	ppm	TPH

In addition to the four samples sent to the I.T. Labs, one composite sample was taken from the four sides of the excavation, sent to Intech Biolabs, 158 Tides Lane, East Brunswick, New Jersey 08816, and analysed for TPH The analysis indicated 20 ppm TPH.

The soil was placed back into the excavation and work was completed on December 12, 1985.

The work on the third area containing twelve (12) process oil tanks began December 13, 1985.

Four composite samples from the excavation were taken and labeled P-9, P-10, P-11, and P-12 and sent to the I.T. Labs for TPH Analysis. The results were as follows:

P-9	20	ppm	TPH
P-10	45	ppm	TPH
P-11	11	ppm	TPH
P-12	11	ppm	TPH

In addition to the TPH Analysis done by I.T. Labs ne composite sample was analyzed for P C B 's by Intech Biolabs. No P C B 's were found. The excavation was closed December 16, 1985. 967 gallons of residual product and rinsate from the pressure washing of all (19) steel storage tanks were disposed of as a Waste Flammable Liquid, N.O.S., Flammable Liquid U.N. 1993 at Standard Tank Corporation's Bayonne, New Jersey facility, (ref.Exhibit 4.1 State of New Jersey Manifest Number NJA0099283 attached).

The second phase of the closure of underground tanks project was the removal and disposal of fifteen (15) concrete vaults, whose total capacity was 306,000 gallons. First, of 200,000 gallons of non-hazardous flyash slurry was removed from the vaults, dewatered using the Waste Treatment Plant Filter Press and drummed for disposal. This work was performed during January through April, 1986.

The drums of flyash were transported to Michigan Disposal, Inc. in Belleville, Michigan for disposal (ref. Exhibit 4.2 Michigan State Manifest Numbers 0797208, 0821705, and 0797209) on May 8, 1986 by Buffalo Fuels Corporation.

I. T. Corporation began work on the demolition and removal portion of the project on April 22, 1986 following removal of the flyash. Prior to demolition of the vaults, hydroblasting was performed to remove any residues from the vaults interior. The rinsate from the hydroblsting was processed through the plant's Wastewater Treatment Plant.

The concrete was completely demolished and staged at the north end of the excavation by May 6, 1986. On May 8, 1986, (21) soil samples from beneath the slab were analyzed for TPH. Results from these samples range from 270 ppm to 4,600 ppm. TPH (ref. Exhibit 4.3 "Table #1"). On May 13, 1986, (18) additional soil samples and one water sample were taken from around the perimeter of the excavation.

Analysis showed the water sample to be clean (ref. Exhibit 4.4 Table #2). The additional soil sample results taken from the perimeter ranged from 12 ppm to 9,000 ppm TPH (ref.Exhibit 4.5."Table #3"). A PCB composite sample was also taken and results showed no PCB's present (ref. Exhibit 4.6 "Table #4).

On May 15, 1986, I.T. Corporation removed soil to a depth of six feet under the bottom of the slab and out to the boundaries of the excavation. This soil was staged at the South end of the excavation. The filling of the excavation began on May 29, 1986, with fill material being supplied by Kennedy Contracting Company, Pittsburgh, PA, and was completed August 30, 1986.

From July 28, 1986 to August 7, 1986 approximately 1,500 tons of concrete, rebars, and soil which was used to line the truck beds were tansported to Suburban Landfisl Newark, Ohio for disposal as a Non-Hazardous Waste. (ref. Exhibit 4.7 Ohio EPA Solid Waste Disposal Questionnarie 5-29-86 and Ohio EPA letter 6-30-86).

Remaining unused soil was spread to a thickness of less than one foot. The soil was fertilized with a high nitrogen content fertilizer to promote biodegradation. Hydrocarbon concentrations in the soils were decreased significantly as aeration and tilling of the material was performed. Additional samples were taken of the spread soil on August 15, 1986, March 25, 1987, and June 26, 1987. The results are as follows:

August 15, 1986	130 & 240 ppm	(ref.Exhibit 4.8)
March 25, 1987	104 ppm	(ref. Exhibit 4.9)
June 24, 1987	78 ppm	(ref. Exhibit 4.9)

The project was totally completed as of June 26, 1987.

State of New Jersey
Department of Enviromental Protection
Division of Waste Management
CN 028, Trenton, NJ 08625

Exhibit 4.1

UNIFORM HAZARDOUS WASTE MANIFEST

NJA0099283

UNION SWITCH + SIGNAL
AMERICAN STANDARD INDUSTRIES
1789 SOUTH BRADDOCK AVE
SWISSVALE PA
SAME
412 273-4000

NEFCCO

FREEHOLD CARTAGE INC

STANDARD TANK CORPORATION
NO. 1 INGRAM AVENUE
BAYONNE, NEW JERSEY

NJD 054126164

WASTE FLAMMABLE LIQUID, N.O.S.
FLAMMABLE LIQUID UN 1993

D001

(L) LIQUID
I IGNITABLE

DOES NOT CONTAIN PCB'S
MATERIAL GENERATED DURING DECOMMISSION OF FUEL STORAGE TANKS
N.J. SPECIAL WASTE X 726

Louis D. Rossa

Christopher Reilly

JANE KRESCH

3 – TSD MAIL TO – GENERATOR

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Exhibit 4.2

Form Approved OMB No 2000-0404 Expires 7-31-86

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. PA D 00 0 00 11 1 2 — Manifest Document No.

2. Page 1 of ... — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Union Switch & Signal Div.
P.O. Box 420
Pittsburgh, Pa. 15230

4. Generator's Phone (412) 244-3183

5. Transporter 1 Company Name: Buffalo Fuels Corp. — 6. US EPA ID Number: NYD051809152

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address
MICHIGAN Disposal, Inc.
49350 N Service Drive
Belleville, Mich. 48111 — 10. US EPA ID Number: MID 007248 31

State Manifest Document Number: MI 0797208
State Generator's ID
State Transporter's ID
Transporter's Phone
State Transporter's ID
Transporter's Phone 313-753-1521
State Facility's ID
Facility's Phone 313-697-2130

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. Non Hazardous Flush	10	DM	39000	P	SLUDGE	
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
Approval # 8374
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.

GENERATOR

Printed/Typed Name: M O Tardel — Signature — Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER 800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 4-85)

GENERATOR 2ND COPY

PR 5110 Rev. 4/85

DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. ☐ DIS. ☐ REJ. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Exhibit 4.2

Please print or type.

Form Approved OMB No 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. PAD000000115 Manifest Document No.
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Union Switch & Signal Div. American Standard, PO Box 420 Pittsburgh PA 15230
4. Generator's Phone (412) 244-3183

A. State Manifest Document Number: MI 0821705
B. State Generator's ID

5. Transporter 1 Company Name: Buffalo Fuels Corp.
6. US EPA ID Number: NYD [illegible]
C. State Transporter's ID
D. Transporter's Phone [illegible]

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: MICHIGAN Disposal Inc, 49350 N Service Drive, Belleville Mich 48111
10. US EPA ID Number: MID000724831
G. State Facility's ID
H. Facility's Phone: 313-697-7830

HM	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	Non-Hazardous Asphalt	58	DM	37100	P	SILWD	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above: Approval H 2374
a/ b/ c/ d/

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Printed/Typed Name: M D Tourd[illegible] | Signature: [signature] | Date Month Day Year: 05 08 86

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DARYL QUINZIO | Signature: [signature] | Date Month Day Year: 05 08 86

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date Month Day Year

ALL SPILLS BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 426-8802 24 HOURS PER DAY.

GENERATOR / TRANSPORTER / FACILITY

PR 5110

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐

1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Exhibit 4.2

Please print or type.

Form Approved OMB No 2000-0404 Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. PAD 0 0 0 [illegible] 1 5 — Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Union Switch & Signal Div.
P.O. Box 420
Pittsburgh, Pa. 15230

4. Generator's Phone (412) 241-3183

A. State Manifest Document Number MI 0797209

B. State Generator's ID

5. Transporter 1 Company Name Buffalo Fuels Corp.

6. US EPA ID Number NYD 0 5 1 8 0 1 9 3 7 9

C. State Transporter's ID [illegible]

D. Transporter's Phone [illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone [illegible]

9. Designated Facility Name and Site Address
MICHIGAN DISPOSAL INC
49350 N Service Drive
Belleville Mich 48111

10. US EPA ID Number MI D 0 0 0 7 2 4 8 3 1

G. State Facility's ID

H. Facility's Phone 313-697-7730

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Non Hazardous Flyash	60	DM	32500	P	SLUG
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above
Approval # 2374
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name: M D Tourdot — Signature: [signature] — Date: Month Day Year 05 08 86

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: E. P. Miller — Signature: [signature] — Date: Month Day Year 5 8 86

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

GENERATOR

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 4-85)

GENERATOR 2ND COPY

PR 5110 Rev. 4/85

TABLE 1

TOTAL HYDROCARBON ANALYSIS SUMMARY
FOR UNION SWITCH & SIGNAL
PROJECT NO. 305009

SAMPLE IDENTIFICATION	TOTAL HYDROCARBON mg/kg(1)
USS-001S	2800
USS-002S	1700
USS-003S	3600
USS-004S	4000
USS-005S	1200
USS-006S	3700
USS-007S	1300
USS-008S	4600
USS-009S	690
USS-010S	1200/740
USS-011S	440
USS-012S	490
USS-013S	780
USS-014S	1100
USS-015S	410
USS-016S	150
USS-017S	240
USS-018S	1500
USS-019S	1000
USS-020S	3200/2400
USS-021S	270

(1) mg/kg = milligrams per kilogram or parts per million.

Exhibit 4.4

TABLE 2

TOTAL HYDROCARBON ANALYSIS SUMMARY
FOR UNION SWITCH & SIGNAL
PROJECT NO. 305009

SAMPLE IDENTIFICATION	TOTAL HYDROCARBON mg/ℓ(1)
USS-001W	1.0

(1) mg/ℓ = milligrams per liter or parts per million.

Exhibit 4.5

TABLE 3

TOTAL HYDROCARBON ANALYSIS SUMMARY
OF SOIL SAMPLES
FOR UNION SWITCH & SIGNAL
PROJECT NO. 305009

SAMPLE IDENTIFICATION	TOTAL HYDROCARBON mg/kg(1)
USS-023S	12
USS-024S	150
USS-025S	20/38(2)
USS-026S	92
USS-027S(A)	160
USS-027S(B)	150
USS-028S	2000
USS-029S	29
USS-030S	1000
USS-031A	1700
USS-031B	20
USS-032	1600/2500
USS-033A	9000
USS-033B	1300
USS-034A	1500
USS-034B	1600
USS-035A	60
USS-035B	1200

(1) mg/kg = milligrams per kilogram or parts per million.

(2) The indicated samples were analyzed in duplicate.

Exhibit 4.6

TABLE 4

RESULSTS OF POLYCHLORINATED BIPHENYL (PCB)
ANALYSIS OF SOIL SAMPLE
FOR UNION SWITCH & SIGNAL
PROJECT NO. 305009

SAMPLE IDENTIFICATION	PCB CONCENTRATION[1] mg/kg[2]	SOURCE AROCLOR[3]
USS-020	<1.0	(3)

---

(1) Method blanks were consistently <1.0 mg/kg polychlorinated biphenyl.

(2) Reported values were not corrected for percent recovery, mg/kg = milligrams per kilogram or parts per million.

(3) Indicates when PCBs are detected, the source of the PCB contamination and the commercial aroclor mixture used for quantitation. All samples were screened for Aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260 to determine whether PCBs were present and which aroclor standards were required for instrument calibration.

Exhibit 4.7

OhioEPA

State Of Ohio Environmental Protection Agency

Northeast District Office
2110 E. Aurora Road; Twinsburg, Ohio 44087-1969

(216) 425-9171

Richard F. Celeste, Governor

June 30, 1986

RE: SOLID WASTE
MAHONING COUNTY
CENTRAL WASTES LANDFILL

Mr. Dave Tourdof
Union Switch & Signal
Braddock Avenue
Swissvale, Pennsylvania 15218

Dear Mr. Tourdof:

This letter is in response to your correspondence dated June 5, 1986, regarding the proposed disposal of industrial waste at the above-referenced landfill. The waste in question is generated at Union Switch & Signal plant, Swissvale, Pennsylvania and is concrete fuel storage tanks and adjoining soil.

The submitted analysis shows the waste to be nonhazardous under the E.P. Toxicity criteria and the generator has stated that it is not a hazardous or toxic waste under Ohio or Federal regulations. The waste has a minimum solids content of 30% and will be disposed at a rate of 5600 total tons. Having considered the information submitted regarding the waste, this office does not object to its disposal at the Central Wastes, Inc., Landfill provided:

1. The generator and landfill operator are fully aware of the Ohio and Federal hazardous waste regulations and they have determined this waste to be nonhazardous.

2. The disposal of this waste causes no operational difficulties at the landfill.

3. The waste contains no free standing liquids.

4. The waste is in a solid state.

5. The waste is disposed where the operator specifies.

6. The disposal of this waste does not violate any condition of the landfill's Permit to Install.

We hope this clarifies our position on this matter. Should any questions arise, please do not hesitate to contact this office.

Sincerely,

Mark F. Schmidt

Mark F. Schmidt
Environmental Engineer 3
Division of Solid & Hazardous Waste Management

MFS:mjo

cc: Mahoning CHD
Ed Kitchen, DSHWM, CO
Central Wastes Landfill
Attn: John Tomci

S 6/85
1 of 2

SOLID WASTE DISPOSAL QUESTIONNAIRE

Exhibit 4.7

1) Proposed Disposal Facility: Central Wastes, Inc.
2240 S. Union Ave.
Alliance, Ohio 44601

2) Generator's Name: Union Switch and Signal

3) Mailing Address: Braddock Avenue, Swissvale, PA 15218

4) Phone No.: (412) 244-3183 5) Company Contact Dave Tourdot

6) Plant and/or Waste Site Location: Union Switch and Signal, Swissvale, PA

7) Generator's SIC Code(s): 3843

8) Accurate description of the process generating the waste(s):
Concrete fuel storage tanks and adjoining soil.

9) Is this a hazardous waste as defined by Ohio or Federal regulations?
___YES _X_ NO. If "YES", Please explain further in an attachment. If this waste is not generated in Ohio, is it considered a hazardous waste in the State it is generated in? ___YES _X_ NO. If "YES", Please explain further in an attachment. Is this waste regulated under the Federal TOSCA regulations? ___YES _X_ NO.

10) Has the proposed Waste Disposal Facility been contacted? _X_ YES ___NO.

11) Please attach to this form a copy of a recent (within 6 months) E.P.Toxicity analysis of a representative sample of the waste in question. Also include the minimum percent solids content of the waste.

12) When the waste arrives at the disposal site, will it:(a) be homogeneous? _X_ YES ___NO(b) be stratified?, ___YES _X_ NO(c) contain any free standing liquids?, ___YES _X_ NO.

13) Will the waste material be disposed in _X_ BULK ___DRUMS ___OTHER(attach explanation)

NEDO

NORTHEAST DISTRICT OFFICE
SOLID WASTE DISPOSAL QUESTIONNAIRE

Exhibit 4.7

Quantity of waste: (a) _____Total drums _____maximum drums/day

(b) 4586 Total tons _____max. tons/day _____max. cubic yards/day.

Duration of the disposal project: Two Weeks

Transporter's name Wills Trucking, Inc.

Transporter's Address: 3185 Columbia Road, Richfield, OH 44286

Transporter's Phone No.: (216) 659-9381

Laboratory's name: IT Analytical Services

Laboratory's Phone No.: (412) 731-8806

Is the Laboratory certified by either State or Federal EPA? X YES ___NO.

Certification (To be notarized)

I certify that I have personally examined and,am familiar with, the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

SIGNATURE V.K.Srivastava DATE 5-29-86

PRINT OR TYPE NAME V. K. Srivastava

Company Name IT Corporation

Mailing Address 10 Duff Road

Pittsburgh, PA 15235

Telephone Number (412) 243-3230

NUS CORPORATION

Laboratory Services Division
5350 Campbells Run Road
Pittsburgh, PA 15205

REMIT TO:
Park West Two
Cliff Mine Road
Pittsburgh, PA 15275

412-788-1080

Exhibit 4.8

LAB ANALYSIS REPORT

CLIENT NAME: UNION SWITCH & SIGNAL
ADDRESS: 1709 SOUTH BRADDOCK AVENUE
SWISSVALE, PA 15218

ATTENTION: MR. DAVE TOURDOT

REPORT DATE: 08/26/86

NUS CLIENT NO: 340801
VENDOR NO: 05765209
WORK ORDER NO: 55830
DATE RECEIVED: 08/15/86

SAMPLE IDENTIFICATION		NUS SAMPLE NO	RESULTS	UNITS
COMPOSITE SOIL SAMPLE	08/08 #1	16080761		
OM75 Hydrocarbon IR Scan			130	PPM
COMPOSITE SOIL SAMPLE	08/08 #2	16080762		
OM75 Hydrocarbon IR Scan			240	PPM

COMMENTS:

Reviewed and Approved by: JMC

Exhibit 4.9
001

PITTSBURGH DISTRICT
[illegible]
[illegible]
TEL 412 922 4000
FAX 412 922 4011

PTL - INSPECTORATE INC.

REPORT

Laboratory No. 887828
Client No. S78857-0

ORDER NO. PCH-530
DATE July 24, 1987

Client	:	Union Switch and Signal Division American Standard Inc. 1789 South Braddock Avenue Swissvale, PA 15218
Sample Description	:	Two (2) Jars of Soil Identified as 3/25/87 and 6/24/87
Submitted By	:	Client
Submitted To	:	PTL-Inspectorate Inc., Chemical Department
Method of Test	:	Standard Methods, 16th Edition, Method No. 503 Infrared Spectroscopy
Reported To	:	Union Switch and Signal Division Attention: M. D. Tourdot

---

Two jars of soil, identified by the client as "3/25/87 Soil" and "6/24/87 Soil", were submitted to this laboratory for determination of the presence of hydrocarbon oil.

The samples were dried and extracted according to Standard Methods, 16th Edition, Method No. 503. Quantitative evaporation and extraction of the samples with trichlorotrifluoroethane resulted in the following:

Sample Identification	Solids Content (Weight Percent)	Water Content (Weight Percent)	Trichlorotrifluoroethane Solubles (ppm, calculated on Dry Solids Basis)
3/25/87 Soil	85.5	14.5	104
6/24/87 Soil	88.6	11.4	78

Order No. PCH-530
Lab. No. 887828

The trichlorotrifluoroethane solubles were examined using infrared spectral procedures for identification with the following results:

Sample Identification	Composition of Trichlorotrifluoroethane Solubles
3/25/87 Soil	Petroleum hydrocarbon oil
6/24/87 Soil	Petroleum hydrocarbon oil

Prepared By:

Barbara A. Higgins
Senior Chemist/Spectroscopist

Reviewed and Approved By:

William S. Carlson, Manager
Chemical Department

2-Client

bmm/ear